■ High-frequency Microwave Sensor PD-V8-S instruction

PD-V8-S 5.8GHz 360°/180° Microwave Motion Sensor

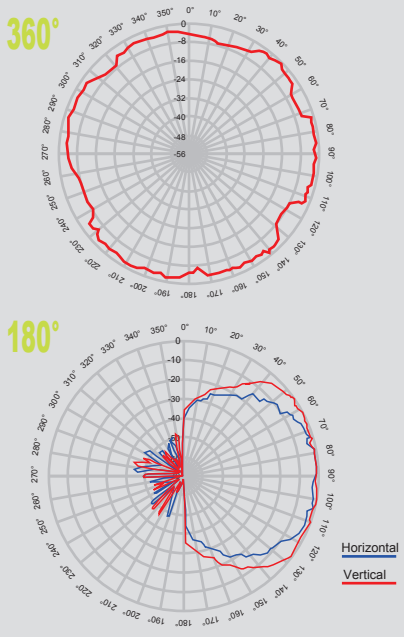
Application

- Intelligent switch
- Wall-hung switch
- Intruder detect

Feature and advantage

- Low wireless power output
- Low power consumption
- Non-contact detection
- Easy to connect with the controller
- Low noise output

Antenna Beam Pattern

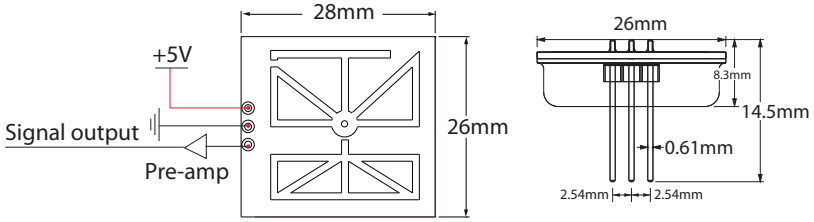


PD-V8-S 5.8GHz 360°/180° Microwave Motion Sensor is a C-Band Bi-Static Doppler transceiver modlue .It's built-in Resonator Oscillator (CRO).This module,V8-S adopts flat Plane Antenna, suitable for wall mounting. It can improve its front signal receiving ability and reduce its flank blind area. Its performance is better than the sensors in the market.

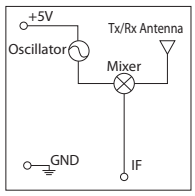
This module is ideally suiable for occupancy sensor in automatic lighting switches.It can also be used for ceiling mount intruder detectors.

According with EN 300440-V2.1.1、EN 62479：2010,RED directive-2014/53/eu
According with FCC Part 15.249
According with EN 62321,ROHS directive-2011/65/eu
According with REACH directive-1907/2006/ec

Products size



Block diagram and connection



Parameter	Notes	Min	Typ	Max	Units
Frequency Setting	1	5.75	5.80	5.85	GHz
Radiated Power (EIRP)	1	0.18	0.20	0.22	mW
Settling Time		5	10	20	μSec
Received Signal Strength	2	80	150	180	μVp-p
Noise	3	0.5		1.5	mVrms
Supply Voltage		4.75	5.00	5.25	VDC
Current Consumption		15	17	19	mA
Pulse Repetition Frequency	4	2.0	2.2	3.0	KHz
Pulse Width	4	15	50	70	μSec
Operating Temperature		-10	22	90	℃
Weight		6.0	6.6	7.2	g

Note1: The radiated emissions is designed to meet FCC rules.
Note2: The Received Signal Strength(RSS) is measured at the total 1 Ways path loss of 70dB.
Note3: The noise voltages are measured from 10Hz to 100Hz at the Output port, inside an Anechoic chamber.
Note4: Pulse operation

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